cate，the disk luteo－testaceous，broadly mar－ gined behind with fuscous，the lateral lobes shallow，fuscous，with an oblique elliptical luteous patch at the lower anterios angle． Tegmina considerably longer than head and pronotam logether，apically trumeate，testace－ ous more or less infumated，the veins luteons， the mediastinal vein one－or two－branched； wings apparently aborted．legs pale lateous， slightly flecked with fuscous，the atclitory trmpantan on inner side of fore tibite want－ ing，the hind tibite somewhat more that two hirds as long as the hind femora，with five rather lons and slender spincs on either mar gin ：buve．

Lengit of body， 13 mm ；pronotism， 2.5 mm ；breadth of head， 3.75 mm ；of pronotum at front margin， 3.5 mm ；length of tesminal， 5.6 mm ．；of hind femora，to mm．；hind tibiace， 7 mm ．

## i d，Biscayne lay，Fla．（Mrs．A．T．

 Slosson）．This species is remarkable for the transverse ciffect of the makings of the front of the body and has relatively longer hind tibiae than the other species．

## Miogryllus sicarius sp．nov．

A light－colored slender species．Head tes taceous with a large wotical fuscons pateh
extending from the hinder edge of the anten－ nae backward．hut not reaching the eyes，and containing two slemder longitudinal testace－ ous stripes．Pronotum ithout half as broad again as long，cyal in breadth throughout， the hind margin fecth！sinuors，the whole testaceous considerably botched with trans－ verace patthen of fuscotic on the disk，the lat－ eral carimae manked posterionly with fumous， the lower margin of the lateral lohes and the hind margin ot the disk fechly edged with fuscous．Tigmina tentaceors，fully as long an head and promotum together，not apically truncitc，dee mediantinal vein mbranched； wing exceedingly long，extending bachward when at rent about an far ：ts the outstretched hind legs．Legh teitaceon，the anditory foramen on inner side of the fore tilatae small but distinct，short oval；hind tibiac ahout wo thirds as long as hind femora，with foum spines on the inner，five on outer row ；ori－ positor twice an long as hind tibiate．
Lengith of body， 33 mm ；pronotum， 2.25 mun．；breadth of head． 3.5 mm ．；pronotum． 3.5 mm ．；length of tegmina， 6 mm ；hind femora． 7.75 mm ；hind tibiac， 5 mm ；ori－ positor， 10 mm ．

1 \＆，San Diego（thher）．
This is the only species which has a distinct auditory foramen on the fore tibiae．

## にたRMLS（）ぜたRCUS LINN．

BY GEO．D．KING，LAWRVNCF，MASS．

Just recently 1r．I．．Reh，of Ham－ burg，Germany，sent me some scale insects for names．In one vial，to my surprise and with much pleasure，I
found a scale insect which seems to have been involved in obscurity for orer a century and is here technically de－ scribed for the first time．

## Kermes quercus L. 1758.

Coceus quercus I. 17.5.
Chermes queres ratilormis (ienty. toba
Coccus yueraus roboris L.
of scale shiny, subglohular in shape, emarginated posteriorls, which makes the scale in some individuals appear kidney shaped, varithle in size, $3!$ mom. long of wible 3 high, some much smatler. Color redbrown, with transserse broken black bands.

Voung of larsae gray brown, clonsatle owal very small. spread mader a coverslass 520 misromillincters long and zoo broad. The skin is clear, what a yellowish tinere quite thichly beset with indintinct short sharp spines $S \mu$ longe and four longitudinat rows of ghemfiform spines, pratically the Same as those fonnd in I'spodeleraminnt raliforaiomm liarolt. lietween ancl in front of the antemate are $($ wo ordinary spines $16 \mu$
 long luintle sor $\mu$ lomg, ome spine-fike hair fo $\mu$ lons. one shom bpine if $\mu$ lone athe one glandiform spine. A little distame abose the ataal orilice are two ordinary spines th $\mu$ long.

Anternate G-jomterl, measming in $\mu$ as folbows:


All the joints have shont thin hairs.
Middle legw short, Mout. Conat. zo. Femur with trochanter, So. Tibiat, 36. T:Ambus, 10. Claw $20 \mu$ lons.

The above described examples were found by Dr. 1. Reh on Quercus sp. at loorstel near Hanburg. Sept. is, 1899. Its nearest North American ally is Kiomes pultestens logue and belongs in selliformis section.

Bibliuggrophital nutes.- Limmé, syst.

Nat. vol. 2, i8o6, p. 712 . No description is given, luut cites Reaum. Ins. 4, 1ab. 6. fig. I \& and gives the food plant as Uurerius rolms.

Geoffroy Ilistoire abregie des Insectes, vol. 1, 1762, p. 508 say's Chermes querous ronifomis. Reaumur, lus. 4 . tab. 6. fig. 1. Le Rermes reniforme du Chene (the roniform Kirmes of the oak). Its form cliffers from that of all the others, it approaches the figure of a kidney. As to its color it is brown.

Fabricius, Systema Entomologiace, 1775, p. $7+3$, says Cotule quarcrs rotheris I.inn. Syst. Nat., vol. 2, p. 7 40-5. Faun. suec. 1016, Chermes quarcus reniformis. Geolif. Ins. vol. 1, p. 508-13. Keaum. Ins. 1. talb. G. lis. 1-1. Habitat in quercus robure

Dr. (ieorge lhimmock has a copy of Reaumur's work which belonged to Jacques Prez, who was a preacher in Widdelverg, Holland (born 1771, died 1798) author of La flore des insectophiles," which gives a list of insects according to the food plants they attack." In this Reaumur he had written names against all the species he could recognize, and he marked on plate 6, fig. 1-1. Cocus quercus Vabr. [- Chermes querchs L.] Dr. Dimmock tells me that Mr. Brez wrote in Firench and began publishing on insects at the age of 19 , and died at 27. Signoret in Essuai sur les Cochenilles gives the food plant as (Luerous pedmachluth.
In Proc. acarl. nat. sci. Plill., 1899 , p. 270, by Prof. ('ockerell are some notes on Kicimes.

